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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,508	08/18/2003	Shunichi Sekiguchi	2565-0273P	1661

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EXAMINER

VO, TUNG T

ART UNIT	PAPER NUMBER
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2621

NOTIFICATION DATE	DELIVERY MODE
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07/17/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary	Application No. 10/642,508	Applicant(s) SEKIGUCHI ET AL.	
	Examiner Tung Vo	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 September 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 48-53 is/are pending in the application.
- 4a) Of the above claim(s) 1-47 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 48-53 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 January 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>09/21/2007; 11/28/2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 48, 50-51, and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haskell et al. (US 6,704,360).

Re claims 48 and 51, Haskell teaches a moving picture decoding apparatus (fig. 10), comprising: a memory (e.g. 1026 and 1047 of fig. 10) for storing previously decoded image as reference image data used for generating a prediction picture (1067 of fig. 10);

a prediction picture generation section (1067 of fig. 10, a predictor), receiving indication information indicating one of a plurality of deformation methods (Video Object Planes are obviously a plurality of deformation methods as shown in figure 8, 1007, VOPTYPE, of fig. 10) and a motion parameter extracted from a bit stream (1008 of fig. 10, note the motion vectors carried on line (705 of fig. 7; same 1008 of fig. 10) are either the direct motion vectors (which can be stored next P-picture block/macroblock motion vector and delta motion vector), forward motion vector, backward motion vector, or both forward and backward motion vectors) said prediction picture generation section generating the prediction picture using the reference image (e.g. 1026 of fig. 10) data and the deformation method indicated by the indication information (e.g. 1007, 1025, and 1045 of fig. 10), the deformation method applied to the reference image (Prev VOPs Store 1026 of fig. 10); and

a decoding section (1001 and 1059 of fig. 10) for decoding a texture (note figure 8 shows a picture 800 is segmented into a number of semantic objects/regions of arbitrary shape, head and shoulders view 802, a logo 803, and the background without the foreground objects 801, wherein the background without foreground objects 801 is obviously considered as a texture, and the background as texture would obviously decoded, e.g. 1001 and 1059 of fig. 10) from the bit stream, and adding the texture to the prediction picture generated by the prediction picture generation section so as to obtain a decoded image (1062 of fig. 10, note the decoded VOPs would obviously be form the picture, see picture 800 of fig. 8).

Re claims 50 and 53, Haskell further teaches a plurality of memories (1026 and 1047 of fig. 10) for storing the reference image data, each of the plurality of memories (1026 of fig. 10) corresponding to at least one of the deformation methods (1007 and 1025 of fig. 10), wherein the prediction picture generation section (1067 of fig. 10) generates the prediction picture based on the reference image (e.g. 1026 of fig. 10) stored in a memory of the plurality of memories which corresponds to the deformation method indicated by the indication information (1007 and 1025 of fig. 10).

3. Claims 49 and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haskell et al. (US 6,704,360) and in view of Boon (US 6,15,056).

Re claims 49 and 52, Haskell does not particularly disclose wherein the plurality of deformation methods that may be indicated by the indication information and used by the prediction picture generation section to generate the prediction picture include a parallel

translation transform method, an affine transform method and a perspective transform method as claimed.

However, Boon teaches wherein the plurality of deformation methods that may be indicated by the indication information and used by the prediction picture generation section to generate the prediction picture include a parallel translation transform method, an affine transform method and a perspective transform method (1106 of fig. 11, Note in the transformation parameter expander, divide the normalized parameters by exponent, and expand these transformation parameter. In the case affine parameters (a, b, c, d), find the maximum value among (a, b, c, d.). In this case, the parameter of parallel translation (e, f) can be included; however, since these parameters typically have a different number of digits from the affine parameters, it had better not be included).

Therefore, taking the combined teachings of Haskell and Boon as a whole, it would have been obvious to one of ordinary skill in the art to incorporate the teachings of Boon into the moving picture decoding apparatus (fig. 10) of Haskell for pictures of different sizes are transformed into a common spatial coordinates, thereby increasing an accuracy of a motion detection and reducing coded quantity of the motion vector, as a result, picture quality is improved.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tung Vo/
Primary Examiner, Art Unit 2621